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	OIRANSMITTAL	Filing Date	July 2, 2003				
	် gFORM	First Named Inventor	Michael Houghton				
(;	MAR 2 8 2005	Art Unit	1653 Stacy B. Chen				
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Docket No. PP19545.003

USSN: 10/612,884



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3/24/05

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

MICHAEL HOUGHTON Confirmation No.: 6634

Serial No.: 10/612,884 Art Unit: 1653

Filing Date: July 2, 2003 Examiner: Stacy B. Chen

Title: HCV FUSION PROTEINS WITH MODIFIED NS3 DOMAINS

RESPONSE TO REQUIREMENT FOR RESTRICTION AND PRELIMINARY AMENDMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

This paper is presented in response to the restriction requirement mailed February 24, 2005, with a shortened statutory period of one month for response. Accordingly, this paper is timely filed.

Also accompanying this response is a Preliminary Amendment. Reconsideration of the application is requested in view of the following amendments and remarks.

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RESPONSE TO REQUIREMENT FOR RESTRICTION

The Examiner identified 13 groups of claims as follows:

Groups I, claims 19-21, drawn to a method of stimulating an immune response;

Group II, claims 25-40, drawn to a polynucleotide,

with further restriction of Groups I and II required between one embodiment from claim 13(a)-(j) and claim 14(a)-(j);

Group III, claims 2 and 15, drawn to a fusion protein comprising a modified NS3 polypeptide and an HCV polypeptide other than NS3, wherein the modification comprises an amino acid substitution corresponding to His-1083, Asp-1105 and/or Ser-1165;

Group IV, claims 3, 13(a) and 14(a), directed to a fusion protein comprising a modified NS3 polypeptide, an NS4 polypeptide, an NS5a polypeptide, and optionally a core polypeptide;

Group V, claims 4, 13(b) and 14(b), directed to a fusion protein comprising a modified NS3 polypeptide, an NS4 polypeptide, an NS5a polypeptide, an NS5b polypeptide, and optionally a core polypeptide;

Group VI, claims 5, 13(c) and 14(c), directed to a fusion protein comprising a modified NS3 polypeptide, an E2 polypeptide, a p7 polypeptide, an NS2 polypeptide, an NS4 polypeptide, an NS5a polypeptide, and optionally a core polypeptide;

Group VII, claims 6, 13(d) and 14(d), directed to a fusion protein comprising a modified NS3 polypeptide, an E1 polypeptide, an E2 polypeptide, a p7 polypeptide, an NS2 polypeptide, an NS4 polypeptide, an NS5a polypeptide, and optionally a core polypeptide;

Group VIII, claims 7, 13(e) and 14(e), directed to a fusion protein comprising a modified NS3 polypeptide, an E2 polypeptide, an NS4 polypeptide, an NS5a polypeptide, and optionally a core polypeptide;

Group IX, claims 8, 13(f) and 14(f), directed to a fusion protein comprising a modified NS3 polypeptide, an E1 polypeptide, an E2 polypeptide, an NS4 polypeptide, an NS5a polypeptide, and optionally a core polypeptide;

Group X, claims 9, 13(g) and 14(g), directed to a fusion protein comprising a modified NS3 polypeptide, an E2 polypeptide, and optionally a core polypeptide:

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Group XI, claims 10, 13(h) and 14(h), directed to a fusion protein comprising a modified NS3 polypeptide, an E1 polypeptide, an E2 polypeptide, and optionally a core polypeptide;

Group XII, claims 13(i) and 14(i), directed to a fusion protein comprising a modified NS3 polypeptide, an E2 polypeptide, a p7 polypeptide, an NS2 polypeptide and optionally a core polypeptide; and

Group XIII, claims 13(j) and 14(j), directed to a fusion protein comprising a modified NS3 polypeptide, an E1 polypeptide, an E2 polypeptide, a p7 polypeptide, an NS2 polypeptide, and optionally a core polypeptide.

Applicants note claims 1, 11, 12, 16-18 and 22-24 are considered to link the claims of Groups III-XIII and that upon allowance of the linking claims, the restriction requirement as to the linked inventions will be withdrawn. Applicants assume that new claims 45, 46, 49 and 50, presented in the Preliminary Amendment, will also be considered linking claims.

Applicants elect to proceed with the claims of Group V, claims 4, 13(b), 14(b), and new claims 41 and 42, with traverse. Applicants expressly reserve their right under 35 USC §121 to file one or more divisional applications directed to the nonelected subject matter during the pendency of this application.

Applicants traverse this restriction requirement for the following reasons. All of the claims of Groups III-XIII pertain to fusion proteins including a modified NS3 polypeptide and at least one additional HCV polypeptide. Applicants submit a search of the claims of Groups III-XIII together would not be overly burdensome for the Examiner as a search for a fusion protein containing a modified NS3 polypeptide would inevitably turn up art directed to fusion proteins containing a modified NS3 polypeptide in combination with the various HCV polypeptides as claimed in each of Groups III-XIII.

MPEP §803 states:

If the search and examination of an entire application can be made without serious burden, the examiner <u>must</u> examine it on the merits, even though it includes claims to independent and distinct inventions. (Emphasis added.)

Applicants submit that an examination of the claims as proposed above, would not impose a serious burden on the Examiner. Indeed, applicants believe that failure to examine the claims as proposed would pose a far greater burden on the Patent and

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Trademark Office, by requiring a duplication of effort and resources, since a search directed to the claims of each of Groups III-XIII would turn up overlapping art if such art existed. Accordingly, applicants respectfully traverse the above restriction requirement and request reconsideration thereof.